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## Human liver protein map: a reference database established by microsequencing and gel comparison.

Hochstrasser DF, Frutiger S, Paquet N, Bairoch A, Ravier F, Pasquali C, Sanchez JC, Tissot JD, Bjellqvist B, Vargas R, et al

Medicine Department, Geneva University, Switzerland.

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This publication establishes a reference human liver protein map obtained with immobilized pH gradients. By microsequencing, 57 spots or 42 polypeptide chains were identified. By protein map comparison and matching (liver, red blood cell and plasma sample maps), 8 additional proteins were identified. The new polypeptides and previously known proteins are listed in a table and/or labeled on the protein map, thus providing a human liver two-dimensional gel database. This reference map can be used to identify protein spots on other samples such as rectal cancer biopsies.

### MeSH Terms:

- Amino Acid Sequence
- Ampholyte Mixtures
- Blood Proteins/analysis
- Comparative Study
- Databases, Factual\*
- Electrophoresis, Gel, Two-Dimensional\*
- Human
- Hydrogen-Ion Concentration
- Liver/chemistry\*
- Molecular Sequence Data
- Peptide Mapping/methods\*
- Proteins/analysis\*
- Reference Standards
- Support, Non-U.S. Gov't

### Substances:

- Proteins
- Blood Proteins

## ◦ Ampholyte Mixtures

PMID: 1286669, UI: 93162045

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BLAST PubMed Nucleotide Protein Genome Structure Taxonomy Help

Query: gi|6782048 unnamed protein product [Homo sapiens]

Lineage: Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo

COG0678 assigned by Cognitor (2 best hits)

Best hits

Common Tree

Taxonomy Report

3D structures

CDD-Search

GI list

51 BLAST hits to 30 unique species Sort by taxonomy proximity

1 Archaea 12 Bacteria 13 Metazoa 13 Fungi 12 Plants 0 Viruses 0 Other Eukaryotae

Keep only

Cut-Off

100

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162 aa

			SCORE	P	ACCESSION	GI	PROTEIN DESCRIPTION
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830	26	AAF03750	6103724				antioxidant enzyme B166 [Homo sapiens]
			822	23	AAG13453	10305338	peroxiredoxin 5 [Cercopithecus aeth
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820	26	P30044	3915613				PUTATIVE PEROXISOMAL ANTIOXIDANT ENZYME (LIVER TISSUE 2
818	23	AAG13451	10305334				peroxiredoxin 5 [Papio hamadryas]
			767	21	AAF04855	6166491	thioredoxin peroxidase PMP20 [Mus m
767	21	AAF03751	6103726				antioxidant enzyme B166 [Rattus norvegicus]
767	21	P99029	3913065				PUTATIVE PEROXISOMAL ANTIOXIDANT ENZYME (LIVER TISSUE 2
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			625	21	AAF21016	6644338	peroxiredoxin V [Mus musculus]
			475	8	AAF55497	7300338	CG7217 gene product [Drosophila melanoga
			290	2	AAF94508	9655843	antioxidant, putative [Vibrio cholerae]
290	3	AAD33602	4928472				type 2 peroxiredoxin [Brassica rapa subsp. pekinensis]
282	3	AAD28242	4704730				peroxiredoxin TPx1 [Arabidopsis thaliana]
281	3	AAG40130	11761654				peroxiredoxin [Oryza sativa]
			281	3	CAB86900	7529720	peroxiredoxin-like protein
			274	3	BAA82377	5441879	ESTs AU070372(S13446), AU075541(S035
			268	3	AAF06057	6227021	Identical to gb AF121356 peroxiredo
			257	21	AAD28243	4704732	peroxiredoxin TPx2 [Arabidopsis th
			257	21	BAA95057	7670411	Mus musculus peroxiredoxin V (PrxV)
			246	2	BAA17776	1652858	membrane protein [Synechocystis sp.]
			242	2	AAF41352	7226184	peroxiredoxin 2 family protein/glutaredoxin [Nei
			242	3	BAA88530	6630684	ESTs AU070430(S15424), AU082086(E1
			237	2	AAF95778	9657228	peroxiredoxin family protein/glutaredoxi
			234	3	AAF66133	7658343	unknown protein; 13384-11892 [Arabidopsis thalia
231	4	AAB95638	2769700				peroxisomal-like protein [Aspergillus fumigatus]
211	2	I64154	1074445				conserved hypothetical protein HI0572 - Haemophilus i
			210	2	AAG37299	11612206	unknown [Sinorhizobium fredii]
208	4	CAA20911	3646447				peroxisomal membrane protein Pmp20p, Ahpc-TSA fa mily p
208	4	CAA05528	2598045				PMP20 [Schizosaccharomyces pombe]
			206	2	CAA92419	1486441	unknown [Rhizobium sp.]
			205	4	AAD42074	5326864	peroxisomal membrane protei
			204	2	S39907	7469151	conserved hypothetical protein 10 - Rhodobact
			202	4	AAB41351	558080	Lipomyces kononenkoae subsp. spencermartinsiae p
202	4	A32646	83903				peroxisomal membrane protein 20K A - yeast (Candida boic
198	2	CAA06680	3093392				ORF180 [Rhizobium etli]
197	4	B32646	83904				peroxisomal membrane protein 20K B - yeast (Candida boic
			196	3	AAF06060	6227024	Contains similarity to gb AF121355 peroxiredoxin
			196	4	CAA09883	4138171	allergen [Malassezia furfur]
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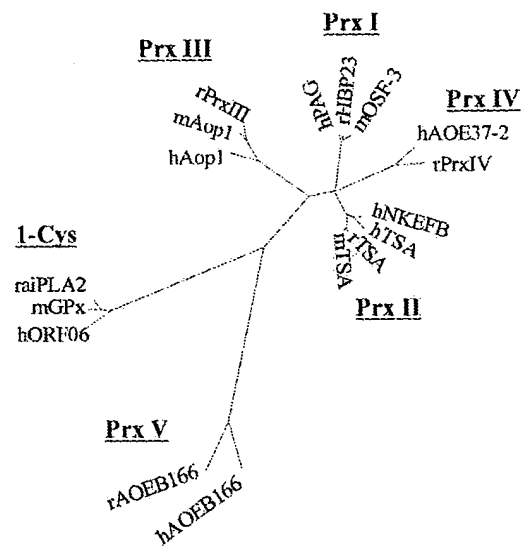
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.....●.....  136  4  AAB67554  1256872 Ylr109wp [Saccharomyces cerevisiae]
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(               ,      106  2  AAD52147  5814209 alkyl hydroperoxide reductase subunit alpha [Candida albicans]
.....●.....  103  3  CAA54066  471321 HvB15C [Hordeum vulgare]
.....●.....      102  2  CAA69447  1707727 Methanobacterium orfK homolog [Methanobacterium thermoautotrophicum]
.....●.....      100  2  CAB88842  7636005 hypothetical protein SCE6.38. [Streptomyces coelicolor]

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A

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Consensus	-----	-----	-----	-----
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Consensus	-----	-----	-----	-----
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hAop166	-----	-----	-----	-----
Consensus	-----	-----	-----	-----
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hNKEFB	-----	-----	-----	-----
hAOE37-2	AMVDSHCHL	AM--VSTIK	EGGLGPHRE	ELVSDPIKCI
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hAop166	-----	-----	-----	-----
Consensus	-----	-----	-----	-----
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hNKEFB	-----	-----	-----	-----
hAOE37-2	RG-----IS	VGGLFLIDR	GILRLITWD	LAVRSVDET
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hAop166	-----	-----	-----	-----
Consensus	-----	-----	-----	-----
hPAG	GRSEVCPAG	SEIS-SDTIR	EVV--QSSRE	YFSKQ----
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hAOE37-2	GRSEVCPAG	SEIS-SDTIR	EVV--QSSRE	YFSKQ----
hAop1	-----	-----	-----	-----
hAop166	-----	-----	-----	-----
Consensus	-----	-----	-----	-----

B





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☐ 1: GI "6166493" [GenPept] thioredoxin peroxidase PMP2... BLink, PubMed, Related Sequences, Nuc

LOCUS AF197952\_1 214 aa PRI 29-FEB-2000  
 DEFINITION thioredoxin peroxidase PMP20 [Homo sapiens].  
 ACCESSION AAF04856  
 PID g6166493  
 VERSION AAF04856.1 GI:6166493  
 DBSOURCE locus AF197952 accession AF197952.1  
 KEYWORDS .  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (residues 1 to 214)  
 AUTHORS Zhou,Y., Kok,K.H., Chun,A.C., Wong,C.M., Wu,H.W., Lin,M.C.,  
 Fung,P.C., Kung,H. and Jin,D.Y.  
 TITLE Mouse peroxiredoxin V is a thioredoxin peroxidase that inhibits  
 p53-induced apoptosis  
 JOURNAL Biochem. Biophys. Res. Commun. 268 (3), 921-927 (2000)  
 MEDLINE 20145535  
 REFERENCE 2 (residues 1 to 214)  
 AUTHORS Jin,D.-Y.  
 TITLE Direct Submission  
 JOURNAL Submitted (23-OCT-1999) Institute of Molecular Biology, The  
 University of Hong Kong, 8 Sassoon Road, Hong Kong  
 COMMENT Method: conceptual translation.  
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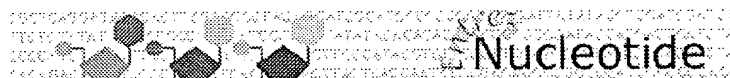


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☐ 1: GI "6782048" [GenPept] unnamed protein product [Homo sapiens] BLink, Related Sequences, Nucleotide, Ta

LOCUS CAB70589 162 aa PRI 20-SEP-2000  
 DEFINITION unnamed protein product [Homo sapiens].  
 ACCESSION CAB70589  
 PID g6782048  
 VERSION CAB70589.1 GI:6782048  
 DBSOURCE embl locus A99097, accession A99097.1  
 KEYWORDS .  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (residues 1 to 162)  
 AUTHORS Falmagne,P., Wattiez,R., Bernard,A., Hermans,C. and Knoops,B.  
 TITLE Peroxisome-associated polypeptide, nucleotide sequence encoding  
 said polypeptide and their uses in the diagnosis and/or the  
 treatment of lung injuries and diseases, and of oxidative  
 stress-related disorders  
 JOURNAL Patent: WO 9909054-A 25-FEB-1999;  
 UNIV MONS HAINAUT (BE) ; FALMAGNE PAUL (BE) ; WATTIEZ RUDDY (BE) ;  
 BERNARD ALFRED (BE) ; HERMANS CEDRIC (BE) ; KNOOPS BERNARD (BE) ;  
 UNIV LOUVAIN (BE)  
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☐ 1: GI "6782047" [GenBank] Sequence 1 from Patent WO99... Protein, Taxonomy, LinkOut

LOCUS A99097 805 bp DNA PAT 20-SEP-2000  
DEFINITION Sequence 1 from Patent WO9909054.  
ACCESSION A99097  
VERSION A99097.1 GI:6782047  
KEYWORDS .  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1 (bases 1 to 805)  
AUTHORS Falmagne, P., Wattiez, R., Bernard, A., Hermans, C. and Knoop, B.  
TITLE Peroxisome-associated polypeptide, nucleotide sequence encoding  
said polypeptide and their uses in the diagnosis and/or the  
treatment of lung injuries and diseases, and of oxidative  
stress-related disorders  
JOURNAL Patent: WO 9909054-A 1 25-FEB-1999;  
UNIV MONS HAINAUT (BE) ; FALMAGNE PAUL (BE) ; WATTIEZ RUDDY (BE) ;  
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